



MFUA-10

MODIFIED POLYACRYLATE TWO-COMPONENT PAVEMENT MARKING MATERIALS

MFUA-10 is a 100% solids, reflectorized multi-functional polyacrylate two-component system designed for rapid-setting highway marking. It provides high durability and abrasion resistance.

MFUA-10 system can be applied to Portland Cement Concrete (PCC) and asphalt surfaces as a long-lasting striping material for both edge and center line markings. MFUA-10 can also be used for roadways, crosswalks, symbols, and legends.

MFUA-10 can be applied using the existing two-component epoxy traffic paint application equipment.

MFUA-10 is available in retroreflective white and yellow as well as in non-retroreflective black.

TECHNICAL DATA

Property	Test Method	Specification
Non-volatile materials	ASTM D1353	100%
No track time (with glass beads, at 25°C / 77°F)	ASTM D711	<5 minutes
Adhesion to concrete	ASTM D4541	100% concrete failure
Hardness (Shore D)	ASTM D2240	>75
Abrasion resistance	ASTM D4060	<80 mg
Tensile strength	ASTM D638	>6,000 psi (>41 MPa)
Compressive strength	ASTM D695	>12,000 psi (>82 MPa)
Yellowness index	ASTM D1925 and ASTM E313	<6.0
Yellowness index after QUV exposure for 72 hrs	QUV per ASTM G154	<15.0

MIX RATIO BY VOLUME

2:1 (Part A : Part B)

COMPOSITION

Meets various state and federal specifications. Contact your SWARCO Colorado Paint Company technical representatives for details.

ADVANTAGES

- 100% solids chemistry.
- Low viscosity for smooth application.
- Rapid curing for less road blocking.
- Special chemistry for rapid set at a wide range of temperatures.
- Outstanding long-term abrasion and corrosion resistance.
- Exceptional adhesion to a variety of substrates.
- Protection against moisture penetration.
- Good flexibility.
- Excellent ultraviolet light stability.
- High reflective qualities.

PACKAGING

- 55 gallon drum
- 250 gallon tote

Part A:

- 3180 MFUA-10 White
- 3186 MFUA-10 Yellow
- 3187 MFUA-10 Black

Part B:

- 3185 MFUA-10 Catalyst

COVERAGE

- 240 linear feet of 4" (10 cm) line per gallon (19.3 m/L) at a minimum film thickness of 20 mils (500 µm).

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HIGH SHEAR VISCOSITY CHART

Temperature	Catalyst	White	Yellow
100°F (38°C)	1225	959	1111
105°F (40 °C)	927	744	864
110°F (43 °C)	745	599	699
115°F (46 °C)	578	483	566
120°F (49 °C)	484	396	467
125°F (52 °C)	423	326	389
130°F (54 °C)	325	273	328
135°F (57 °C)	269	228	278
140°F (60 °C)	223	193	238
145°F (63 °C)	188	164	206
150°F (66 °C)	159	141	180

SURFACE PREPARATION

PLACEMENT

All technical data regarding material type and application rate and the glass beads will be provided by SWARCO Colorado Paint Company representative to the project engineer prior to starting work. All procedures must be followed exactly per manufacturer's instructions.

PRELIMINARY SURFACE PREPARATION

To assure maximum adhesion and properties, the surface shall be dry and clean. Surface preparation shall include, but not be limited to, cleaning and removal of sealing and curing compounds. All pavements and temporary paint markings shall be cleaned to be free of grease, oil, mud, dust, dirt, grass, loose gravel, loose or flaking paint, and other deleterious material.

The pavement surface area to be prepared shall be wider than the MFUA-10 line to be applied, such that a prepared area shall be clean on all sides of the MFUA-10 after application. New asphalt, concrete, and seal-coated surfaces shall be in place for a minimum of two weeks prior to application and shall have all of the curing compound removed.

To avoid interference with the MFUA-10 system, any existing marking shall be physically removed by any agency-approved method other than by the use of chemicals. All existing markings shall be at least 90% removed. MFUA-10 may be applied over temporary paint markings that are well adhered to the substrate and are thinner than 8 mils (200 µm).

FINAL SURFACE PREPARATION

Upon completion of Preliminary Surface Preparation, the pavement shall be power-broomed and vacuumed. An additional compressed air operation, separate from the compressed air guns on the striping applicator, shall be used to remove residue and debris resulting from the cleaning work immediately prior to the application.

WEATHER CONDITIONS

Application shall be done only during dry conditions and when the ambient (air) and surface (road) temperatures are higher than 35 °F (2 °C) and rising. The pavement temperature and ambient temperature and weather conditions shall be determined and documented before the start of the application and at any other time deemed necessary by the manufacturer or the agency.

EQUIPMENT

MFUA-10 shall be applied with equipment utilizing the impingement mix, solvent free, airless spray application system or standard mix tube application equipment. The equipment shall be designed to accurately control flow of the material at the spray tip. The equipment shall have pressure gauges for each proportioning pump. The equipment shall have a metering device to register the accumulated footage for each spray gun or a meter to determine actual volume used.

OPERATION

Each vehicle shall be operated by a technician who is an expert in that particular equipment's operation and plural component systems application techniques. The equipment shall be very clean and in sound operating condition. All safety precautions and good industrial safety practices shall be followed.

STORAGE

Store in a dark, dry, and cool place. Protect from freezing. The shelf life when stored appropriately in the original unsealed container is one year from the date of manufacture.

SAFETY

Before working with this product, the user is required to read and understand the information provided in the Material Safety Data Sheets and to follow the safety precautions and good industrial hygiene practices. Designed for the use by trained professional personnel only.

WARRANTY

Colorado Paint warrants to the purchaser, for 6 months from the date of manufacturing, that this product when applied according to Colorado Paint application instructions, shall be manufactured without defects. This limited warranty covers material replacement only. Excluded from coverage is labor, any damage to the application surface or any failure of the coating caused other than by defects in the material.